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GOVERNOR

HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20070023
Agency Interest No. 286

Mr. Daniel L. Schuessler
Site Manager
ExxonMobil Chemical Company
PO Box 241
Baton Rouge, LA 70821-0241

RE: Part 70 Operating Permit Renewal, Baton Rouge Chemical Plant
ExxonMobil Chemical Company, Baton Rouge, East Baton Rouge Parish, Louisiana

Dear Mr. Schuessler:

This is to inform you that the permit renewal for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the ____ of _____, 2014, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2009.

Permit No.: 1977-V1

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary
CSN:cet
c: EPA Region VI

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ExxonMobil Corp - Baton Rouge Chemical Plant
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ExxonMobil Corp
Baton Rouge, East Baton Rouge Parish, Louisiana**

I. Background

ExxonMobil Chemical Company (ExxonMobil) owns and operates a chemical manufacturing complex, the Baton Rouge Chemical Plant. This Part 70 permit covers the facilities at the AWT Thermal Combustor Unit currently permitted under Solid Waste Permit No. P-169R1 and Air Permit No. 1977- V0 dated October 19, 2003, and amended October 4, 2005.

This is the Part 70 operating permit for the facility.

II. Origin

A permit application and Emission Inventory Questionnaire (EIQ), received December 20, 2007 were submitted requesting a renewal to the Part 70 operating permit.

III. Description

The Baton Rouge Chemical Plant (BRCP) operates a sludge dryer and fluidized bed thermal combustor at its Advanced Wastewater Treatment (AWT) Thermal Combustor Unit.

The AWT Thermal Combustor Unit normally uses indirect steam dryers to dry various feed streams prior to incineration. Material from the dryers is fed into a fluidized bed combustor for destruction. Hot waste gases from the fluidized bed combustor are used for steam generation. Particulate emissions in the combustion gases are controlled by a baghouse. The AWT Thermal Combustor Unit also has a collection and handling system for disposal of ash, sand, and wet/dried sludge.

The AWT Thermal Combustor Unit is designed to achieve a destruction removal efficiency (DRE) greater than 99.5%. During normal operation, non-hazardous wastewater sludges from BRCP's Wastewater Treatment Unit and streams from the Neo Acids Unit at BRCP are combusted. Chemical Mixing Manifold (CMM) Gas is burned continuously in the burner pilots and during startup of the unit.

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Permit No. 1977-VO issued October 19, 2003, included

- Replacement of two existing mechanical chain conveyors with two new pneumatic conveying systems that will use nitrogen to transport dry sludge
- Updates to emissions data based on recent emission factors, calculations, and speciations.
- Updates to the General Condition XVII and Insignificant Activities lists.
- Updates to the language included in the tables of regulatory applicability to sources in the AWT Thermal Combustor Unit.
- Incorporation of small source permits and administrative amendments that were granted for sources in the unit since the submission of the initial Title V Permit Application
- Update the State Only Specific Conditions contained in the Permit No. 1977(M-2).

The amendment to Permit No. 1977-V0, issued October 4, 2005, involved:

- Updating the permitted VOC emission limits for secondary wastewater (EIQ M-60) by 0.05 TPY due to design changes attributed to the replacement of two existing mechanical chain conveyors with two new pneumatic conveying systems. During the shakedown of the two new conveyors BRCP implemented a design change to drain condensed water from inside the system to the BRCP wastewater treatment system.
- Reconciling permitted emission limits for the sulfuric acid for the AWT Thermal Combustor Stack (EIQ S-82), by calculating the sulfuric acid emissions based on a 5 percent conversion of the available sulfur to sulfuric acid rather than the previous 2 percent conversion

As part of this renewal BRCP proposes the following:

- Reconciliation of emissions
- Updated requirements for the Site Remediation MACT (Subpart GGGG)
- Updates to the language included in the tables of regulatory applicability to sources in the AWT Thermal Combustor Unit.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	8.85	8.85	-
SO ₂	39.40	39.40	-
NO _X	70.00	70.00	-
CO	3.30	3.30	-
VOC *	7.34	7.34	-

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***VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
Acetaldehyde	0.01	0	-0.01
Acrolein	0.01	0	-0.01
Benzene	0.02	0.02	0
Biphenyl	0.05	0.05	0
Carbon Disulfide	0.08	0.02	-0.06
Chlorinated Dibenzo-p-Dioxins	1.30E-06	1.30E-06	0
Chlorinated Dibenzo Furans	8.90E-07	8.90E-07	0
Cresols	0.02	0.01	-0.01
Cumene	0.01	0.01	0
Ethylbenzene	0.02	0.02	0
Formaldehyde	0.01	0	-0.01
Methyl Ethyl Ketone (MEK)	0.48	0.47	-0.01
Methyl Tert-Butyl Ether (MTBE)	0.01	0.01	0
Naphthalene	1.77	0.28	-1.49
Phenol	0.02	0.01	-0.01
PAHs	2.54	0.45	-1.09
Styrene	0.2	0.18	-0.02
Toluene	0.02	0.01	-0.01
Xylene	0.03	0.03	0
Total	5.30	1.57	-3.73

Other VOC (TPY): 5.77

Non-VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Arsenic	0.01	0	-0.01
Chlorine	0.20	0.16	-0.04
Hydrochloric Acid	5.24	5.24	0
Hydrogen Sulfide	0.01	0	-0.01
Sulfuric Acid	3.00	3.00	0
Tetrachloro ethylene	0.01	0	-0.01
Total	8.47	8.40	-0.07

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Metals	Before	After	Change
Antimony	0.01	0	-0.01
Barium	0.01	0	-0.01
Beryllium	0.01	0	-0.01
Cadmium	0.01	0	-0.01
Chromium	0.01	0	-0.01
Copper	0.01	0	-0.01
Lead	0.01	0	-0.01
Manganese	0.01	0	-0.01
Mercury	0.01	0	-0.01
Nickel	0.01	0	-0.01
Phosphorus	0.01	0	-0.01
Selenium	0.01	0	-0.01
Zinc	0.01	0	-0.01
Total	0.13	0	-0.13

IV. Type of Review

This application was reviewed for compliance with the Louisiana Part 70 operating permit program, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD)/Non-Attainment New Source Review (NSSR) do not apply and sources in the application are exempt from 40 CFR Part 64 Compliance Assurance Monitoring (CAM).

This unit is part of a complex that is a major source of toxic air pollutants (TAPs). Ambient Air Standard compliance has been demonstrated for all the TAPs per BRCP's approved Air Toxics Compliance Plan.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a

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person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2009; . A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date> 2009. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Emissions associated with the proposed facility were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

Dispersion Model(s) Used: None

VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates - tons				
		PM ₁₀	SO ₂	NO _x	CO	VOC
Sampling Procedures	766 samples per year	0.01	-	-	-	0.01
Instrument Calibration/ Maintenance	200 calibrations/services each year	0.01	-	-	-	0.01
P/V Vent Inspection/ Maintenance	twice annually	0.01	-	-	-	0.01
Filter Inspections/Replacement	64 filter inspections/ replacements per year.	0.5	-	-	-	0.05
Pump Preparation/Maintenance	16 pump services annually	0.01	-	-	-	0.01
Other Equipment Preparation/Cleaning/ Maintenance/Repair	200 times per year.	4.0	-	-	-	2.3
Turnaround Activities	Varies based on need	1.5	-	-	-	-

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IX. Insignificant Activities

None

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5▲	509	9	11	13	15	2111	2113	2122	2147	2149	2151	2153	22	2521	29*	51*	53*	56
UNF1	AWT Combustor Unit	1		1	1			1				1			1		1	1	1	1
EQT 939	C-08H GFLA-2/5/6 Cooling Towers																			3
EQT 940	M-01R Dry Sludge Loading						1												1	
EQT 941	M-01S Ash Loading						1											3		3
EQT 942	M-60 Secondary Wastewater Emissions														3			1		
EQT 943	S-82 AWT Thermal Combustor Stack			1	1	1						3	3	3	3	2	3	3	1	
EQT 944	V-172 ELHO 72A/B Dry Sludge Hopper & ELRC 77 Dry Sludge Receiver Vent					1						3	3					1		
EQT 945	V-173 ELBN 76A Dry Sludge Storage Bin Vent						1					3	3					1		
EQT 946	V-174 ELBN 76B Dry Sludge Storage Bin Vent							1				3	3					1		
EQT 947	V-175 ELRC 78A/B Dry Sludge Receiver Vent								1			3	3					1		
EQT 948	V-176 EMRC 91 Ash Filter/Receiver Vent									1		3	3					3		3
EQT 949	V-177 EMFD 90 Sand Addition Feeder Vent										1		3	3				3		3
EQT 950	V-178 EMBN 90 Sand Storage Bin Vent											1			3	3			3	
EQT 954	V-437 Sludge Drier and Overhead Condenser													3	3		3	1		
FUG0061	U-72 Fugitive Emissions														1			1		

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* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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X. Table I. Applicable Louisiana and Federal Air Quality Requirements

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

VIEW TO MATHIV

- 1 -The regulations have applicable requirements that apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
 - 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
 - 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
AWT Combustor Unit	NESHAP for Source Categories Subpart(s) F, G, and H [40 CFR 63.100(b)]	DOES NOT APPLY. The unit does not meet the applicability criteria for a chemical manufacturing process unit as defined in 40 CFR 63.100(b).
	NESHAP for Source Categories Subpart T – Standards for Halogenated Solvent Cleaning [40 CFR 63.460(a)]	DOES NOT APPLY. The facility does not use individual batch vapor, in-line vapor, in-line cold, or batch cold solvent cleaning machines with solvents containing methylene chloride, perchloroethylene, trichloroethylene, 1, 1,1-trichloroethane, carbon tetrachloride, or chloroform, or any combination of these halogenated solvents in a total concentration >5% (weight) as a cleaning or drying agent.
	NESHAP for Source Categories Subpart DD – Off-Site Waste and Recovery Operations [40 CFR 63.680(a)]	DOES NOT APPLY. The facility does not receive off-site materials for waste management or recovery operations,
C-08 H GFLA-2/5/6 Cooling Towers	NESHAP for Source Categories Subpart F – Heat Exchange System Requirements [40 CFR 63.100(b)]	DOES NOT APPLY. The unit does not meet the applicability criteria for a chemical manufacturing process unit as defined in 40 CFR 63.100(b).

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ID No:	Requirement	Notes
C-08 H GFLA-2/5/6 Cooling Towers (cont'd)	NESHAP for Source Categories Subpart Q – Chromium Emissions from Industrial Process Cooling Towers [40 CFR 63.400]	DOES NOT APPLY. No water treatment chemicals containing chromium or chromium compounds in use.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.A] State Only Requirement	DOES NOT APPLY. The source does not emit TAPs.
M-01S Ash Loading	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.A] State Only Requirement	DOES NOT APPLY. The source does not emit TAPs.
M-60 Secondary Wastewater Emissions	NSPS Subpart QQQ – VOC Emissions from Petroleum Refinery Wastewater Systems [\$] CFR 60.690(a)(1) and 60.691]	DOES NOT APPLY. The unit does not receive wastewater from a petroleum refinery process unit and does not meet the definition of a wastewater system. The source is not located in a petroleum refinery.
	Control of Emission of Organic Compounds – Standards for Industrial Wastewater [LAC 33:III.2153.A and B]	DOES NOT APPLY. The unit does not receive a stream that meets the definition of an “affected VOC wastewater”. It does not receive any individual wastewater stream from an affected source category system with 1) a VOC concentration greater than or equal to 10,000 ppmw or 2) a VOC concentration greater than or equal to 1000 ppmw and a flow greater than or equal to 10 liters/minute.

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ID No.	Requirement	Notes
S-82 AWT Thermal Combustor Stack	NSPS Subpart D – Standards of Performance for Fossil-fuel-fired Steam Generators [40 CFR 60.40 c(a)]	DOES NOT APPLY. The maximum design heat capacity of the unit is not within the definition of affected facility.
	NSPS Subpart Da – Standards of Performance for Electric Utility Steam Generating Units [40 CFR 60.40a(a) and 60.41a]	DOES NOT APPLY. The unit does not meet the definition of an electric utility steam generating unit.
	NSPS Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40b(a)]	DOES NOT APPLY. The maximum design heat capacity of the unit is not within the definition of affected facility.
	NSPS Subpart Dc – Standards of Performance for small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40c(a)]	DOES NOT APPLY. Construction of the unit commenced prior to 6/9/1989 and the source has not been modified or reconstructed since 6/9/1989.
	NSPS Subpart E-Standard of Performance for Incinerators [40 CFR 60.50(a) and 60.51(b)]	DOES NOT APPLY. Unit does not combust municipal solid waste.
	NSPS Subpart III. Standards of Performance for VOC Emissions from SOCM Air Oxidation Unit Processes [40 CFR 60.610(a)]	DOES NOT APPLY. Source does not receive any vent streams from air oxidation processes.

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ID No:	Requirement	Notes
	NSPS Subpart RRR. Standards of Performance for VOC Emissions from SOCMI Reactor Processes [40 CFR 60.700(a)]	DOES NOT APPLY. Source does not receive any vent streams from reactor processes.
	NSPS Subpart O – Standards of Performance for Sewage Treatment Plants [40 CFR 61.150(a)]	DOES NOT APPLY. Unit does not combust municipal sewage sludge or sludge produced by municipal sewage treatment plants.
S-82 AWT Thermal Combustor Stack (cont'd)	NESHAP Subpart C – National Emission Standards for Beryllium [40 CFR 61.30]	DOES NOT APPLY. – Beryllium emissions from source are a result of virgin fossil fuels. Beryllium emissions do not exceed the emission standard of 10 grams in a 24-hour period. Source does not process beryllium ore, beryllium, beryllium oxide, beryllium alloys, beryllium-containing waste, or any alloy that contains more than 5% beryllium by weight per the definitions in 40 CFR 61.31.
	40 CFR 64-Compliance Assurance Monitoring	EXEMPT. The requirements of 40 CFR Part 64 shall not apply to emission limitations or standards for which a part 70 or 71 permit specifies a continuous compliance determination method, as defined in §64.1. The monitoring included for the control device and specific requirements for opacity are included in the Part 70 permit for this source. 40 CFR 64.2(b)(1)(vi)

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
S-82 AWT Thermal Combustor Stack (cont'd)	Control of Emissions of Organic Compounds – Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147.A and 2147.B]	DOES NOT APPLY. Process unit does not produce any of the SOCMI chemicals listed in Table 8 or LAC 33:III.Chapter21, Appendix A as a final product or intermediate. Vents from wastewater are excluded from the definition of vent stream.
	Control of Emissions of Organic Compounds – Limiting VOC Emissions from Batch Processing [LAC 33:III.2149.A and 2149.B]	DOES NOT APPLY. Source does not receive a stream that meets the definition of process vent. Vents from wastewater are excluded from the definition of process vent.
	Control of Emissions of Organic Compounds – Standards for Industrial Wastewater [LAC 33:III.2153.A and 2153.B]	DOES NOT APPLY. The unit does not receive a stream that meets the definition of an “affected VOC wastewater”. It does not receive any individual wastewater stream from an affected source category system with 1) a VOC concentration greater than or equal to 10,000 ppmw or 2) a VOC concentration greater than or equal to 1000 ppmw and a flow greater than or equal to 10 liters/minute.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No.	Requirement	Notes
V-172 ELH072A/B Dry Sludge Hoppers & ELRC77 Dry Sludge Receiver Vent	Control of Emission of Organic Compounds – Waste Gas Disposal [LAC 33:III.2115.M]	DOES NOT APPLY. Source handles solids not gas streams. Therefore none of the streams meet the definition of waste gas streams.
V-175 ELRC78A/B Dry Sludge Receiver Vent	Control of Emission of Organic Compounds – Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147.A and 2147.B]	DOES NOT APPLY. Process unit does not produce any of the SOCMI chemicals listed in Table 8 or LAC 33:III Chapter21, Appendix A as a final product or intermediate. Vents from wastewater are excluded from the definition of vent stream.
	Control of Emission of Organic Compounds – Limiting VOC Emissions from Batch Processing [LAC 33:III.2149.A and 2149.B]	DOES NOT APPLY. Source does not receive a stream that meets the definition of process vent. Vents from wastewater are excluded from the definition of process vent.
	NSPS Subpart III. Standards of Performance for VOC Emissions from SOCMI Air Oxidation Unit Processes [40 CFR 60.610(a)]	DOES NOT APPLY. Source does not produce any chemical listed in 40 CFR 60.617 as a product, by-product, or intermediate.

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ID No:	Requirement	Notes
V-172 ELH072A/B Dry Sludge Hoppers & ELRC77 Dry Sludge Receiver Vent	NSPS Subpart NNN. Standards of Performance for VOC Emissions from SOCMI Distillation Operations [40 CFR 60.660(a)]	DOES NOT APPLY. Process unit does not produce any chemical listed in 40 CFR 60.667 as a product, by-product, or intermediate.
V-175 ELRC78A/B Dry Sludge Receiver Vent (cont'd)	NSPS Subpart RRR. Standards of Performance for VOC Emissions from SOCMI Reactor Processes [40 CFR 60.700(a)]	DOES NOT APPLY. Process unit does not produce any chemical listed in 40 CFR 60.707 as a product, by-product, or intermediate.

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ID No.	Requirement	Notes
V-173 ELBN76A Dry Sludge Storage Bin	Control of Emission of Organic Compounds – Waste Gas Disposal [LAC 33:III.2115.M]	DOES NOT APPLY. Source handles solids not gas streams. Therefore none of the streams meet the definition of waste gas streams.
V-174 ELBN76B Dry Sludge Storage Bin	Control of Emission of Organic Compounds – Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147.A and 2147.B]	DOES NOT APPLY. Process unit does not produce any of the SOCMI chemicals listed in Table 8 or LAC 33:III.Chapter21, Appendix A as a final product or intermediate. Vents from wastewater are excluded from the definition of vent stream.
	Control of Emission of Organic Compounds – Limiting VOC Emissions from Batch Processing [LAC 33:III.2149.A and 2149.B]	DOES NOT APPLY. Source does not receive a stream that meets the definition of process vent. Vents from wastewater are excluded from the definition of process vent.
	NSPS Subpart II. Standards of Performance for VOC Emissions from SOCMI Air Oxidation Unit Processes [40 CFR 60.610(a)]	DOES NOT APPLY. Source does not produce any chemical listed in 40 CFR 60.617 as a product, by-product, or intermediate.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

ExxonMobil Corp - Baton Rouge Chemical Plant
Agency Interest No.: 286
ExxonMobil Corp
Baton Rouge, East Baton Rouge Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
V-173 ELBN76A Dry Sludge Storage Bin	NSPS Subpart NNN. Standards of Performance for VOC Emissions from SOCMI Distillation Operations [40 CFR 60.660(a)]	DOES NOT APPLY. Process unit does not produce any chemical listed in 40 CFR 60.667 as a product, by-product, or intermediate.
V-174 ELBN76B Dry Sludge Storage Bin (cont'd)	NSPS Subpart RRR. Standards of Performance for VOC Emissions from SOCMI Reactor Processes [40 CFR 60.700(a)]	DOES NOT APPLY. Process unit does not produce any chemical listed in 40 CFR 60.707 as a product, by-product, or intermediate.
V-176 EMRC91 Ash Filter/Receiver Vent	Control of Emission of Organic Compounds – Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33.III.2147.A and 2147.B]	DOES NOT APPLY. Process unit does not produce any of the SOCMI chemicals listed in Table 8 or LAC 33.III.Chapter21, Appendix A as a final product or intermediate. Vents from wastewater are excluded from the definition of vent stream.
	Control of Emission of Organic Compounds – Limiting VOC Emissions from Batch Processing [LAC 33.III.2149.A and 2149.B]	DOES NOT APPLY. Source does not receive a stream that meets the definition of process vent. Vents from wastewater are excluded from the definition of process vent.

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Agency Interest No.: 286
ExxonMobil Corp
Baton Rouge, East Baton Rouge Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
V-176 EMRC91 Ash Filter/Receiver Vent (cont'd)	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.A] State Only Requirement	DOES NOT APPLY. The source does not emit TAPs.
V-177 EMFD90 Sand Addition Feeder Vent	Control of Emission of Organic Compounds – Limiting VOC Emissions from SOCMi Reactor Processes and Distillation Operations [LAC 33:III.2147.A and 2147.B]	DOES NOT APPLY. Process unit does not produce any of the SOCMi chemicals listed in Table 8 or LAC 33:III.Chapter21, Appendix A as a final product or intermediate. Vents from wastewater are excluded from the definition of vent stream.
	Control of Emission of Organic Compounds – Limiting VOC Emissions from Batch Processing [LAC 33:III.2149.A and 2149.B]	DOES NOT APPLY. Source does not receive a stream that meets the definition of process vent. Vents from wastewater are excluded from the definition of process vent.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.A] State Only Requirement	DOES NOT APPLY. The source does not emit TAPs.
V-178 EMBN90 Sand Storage Bin Vent	Control of Emission of Organic Compounds – Limiting VOC Emissions from SOCMi Reactor Processes and Distillation Operations [LAC 33:III.2147.A and 2147.B]	DOES NOT APPLY. Process unit does not produce any of the SOCMi chemicals listed in Table 8 or LAC 33:III.Chapter21, Appendix A as a final product or intermediate. Vents from wastewater are excluded from the definition of vent stream.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

ExxonMobil Corp - Baton Rouge Chemical Plant
Agency Interest No.: 286
ExxonMobil Corp
Baton Rouge, East Baton Rouge Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
V-178 EMBN90 Sand Storage Bin Vent (cont'd)	Control of Emission of Organic Compounds – Limiting VOC Emissions from Batch Processing [LAC 33:III.2149.A and 2149.B]	DOES NOT APPLY. Source does not receive a stream that meets the definition of process vent. Vents from wastewater are excluded from the definition of process vent.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.A] State Only Requirement	DOES NOT APPLY. The source does not emit TAPs.
V-437 Sludge Drier and Overhead Condenser	40 CFR 64 –Compliance Assurance Monitoring (CAM)	DOES NOT APPLY. Source is a closed vent system that captures and reuses fuel. Emissions vent to flare only during process upsets.
	Control of Emission of Organic Compounds – Limiting VOC Emissions from SOCM1 Reactor Processes and Distillation Operations [LAC 33:III.2147.A and 2147.B]	DOES NOT APPLY. Process unit does not produce any of the SOCM1 chemicals listed in Table 8 or LAC 33:III Chapter 21, Appendix A as a final product or intermediate. Vents from wastewater are excluded from the definition of vent stream.
	Control of Emission of Organic Compounds – Limiting VOC Emissions from Batch Processing [LAC 33:III.2149.A and 2149.B]	DOES NOT APPLY. Source does not receive a stream that meets the definition of process vent. Vents from wastewater are excluded from the definition of process vent.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

ExxonMobil Corp - Baton Rouge Chemical Plant
Agency Interest No.: 286
ExxonMobil Corp
Baton Rouge, East Baton Rouge Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No.	Requirement	Control of Emission of Organic Compounds – Standards for Industrial Wastewater [LAC 33:III.2153.A and B]	Notes
V-437 Sludge Drier and Overhead Condenser (cont'd)			DOES NOT APPLY. The unit does not receive a stream that meets the definition of an "affected VOC wastewater". It does not receive any individual wastewater stream from an affected source category system with 1) a VOC concentration greater than or equal to 10,000 ppmw or 2) a VOC concentration greater than or equal to 1000 ppmw and a flow greater than or equal to 10 liters/minute.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

General Information

AI ID: 286 ExxonMobil Corp - Baton Rouge Chemical Plant
Activity Number: PER20070023
Permit Number: 1977-V1
Air - Title V Regular Permit Renewal

Also Known As	Name	User Group	Start Date
0840-00014	ExxonMobil Corp - Baton Rouge Chemical Plant	CDS Number	05-27-1993
13-5409005	Federal Tax ID	Federal Tax ID	05-27-1993
LAD000812818	EMCC A Division of ExxonMobil	Hazardous Waste Notification	01-11-2000
LA0005401	LPDES #	LPDES Permit #	07-01-2006
LAR05N087	LPDES #	LPDES Permit #	05-24-2006
LAR05N466	LPDES #	LPDES Permit #	05-24-2006
LAR10C511	LPDES #	LPDES Permit #	11-01-2004
55150	ORIS Code	ORIS Code	09-16-2008
	Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
	Radioactive Material License	Radiation License Number	05-30-2000
	X-Ray Registration Number	Radiation X-ray Registration Number	11-21-1999
	SW Generator ID #	Solid Waste Facility No.	04-30-2001
0840A0153	Stage II Vapor Recovery	Stage II Vapor Recovery	08-19-2002
34587	ExxonMobil Chemical Co	TEMPO Merge	08-15-2001
38772	ExxonMobil Chemical Co	TEMPO Merge	08-15-2001
41449	Exxon Chemical Americas	TEMPO Merge	01-21-2001
70805XXNCH4999S	TRI #	Toxic Release Inventory	07-29-2004
70821XXNCH4999S	TRI #	Toxic Release Inventory	07-12-2004
856	UST Case History Case Number	UST Case Number	11-21-1999
17004245	UST Facility ID	UST FID #	10-11-2002
7804	Waste Tires	Waste Tire Facility ID Number	05-27-2005
	4999 Scenic Hwy Baton Rouge, LA 70805	Main FAX: 2259771013 Main Phone: 2259777333	
Mailing Address:			
Location of Front Gate:	30.494561 latitude, -91.169756 longitude, Coordinate Method: Lat\Long - DMS, Coordinate Datum: NAD83		
Related People:	Name	Mailing Address	Relationship
	Ray Comingore	PO Box 551 Baton Rouge, LA 708210551	Accident Prevention Contact for
	Richard Cotton	PO Box 551 Baton Rouge, LA 708210551	Underground Storage Tank Contact for
	William Faulk	PO Box 241 Baton Rouge, LA 708210241	Waste Tires Contact for
	W. D. Fellows	PO Box 551 Baton Rouge, LA 708210551	Waste Tires Contact for
	W. D. Fellows	PO Box 551 Baton Rouge, LA 708210551	Air Permit Contact For

General Information

AI ID: 286 ExxonMobil Corp - Baton Rouge Chemical Plant
 Activity Number: PER20070023
 Permit Number: 1977-V1
 Air - Title V Regular Permit Renewal

Related People:	Name	Mailing Address	Phone (Type)	Relationship
W. D. Fellows	W. D. Fellows	PO Box 551 Baton Rouge, LA 708210551	2259778430 (WP)	Solid Waste Permit Contact for Water Billing Party for
Kenneth Holmes	Kenneth Holmes	PO Box 551 Baton Rouge, LA 708210551	2259778430 (WP)	Emission Inventory Contact for
Paul D. Leinweber	Paul D. Leinweber	PO Box 241 Baton Rouge, LA 70821	225977241 (WP)	Emission Inventory Contact for
Paul D. Leinweber	Paul D. Leinweber	PO Box 551 Baton Rouge, LA 708210551	KEN.W.HOLMES@E	Accident Prevention Billing Party for
David Mathurin	David Mathurin	PO Box 551 Baton Rouge, LA 708210551	2259771579 (WF)	Accident Prevention Billing Party for
David Mathurin	David Mathurin	PO Box 241 Baton Rouge, LA 708210241	2259778873 (WP)	Radiation License Billing Party for
David Mathurin	David Mathurin	PO Box 241 Baton Rouge, LA 708210241	2259771424 (WF)	Radiation License Billing Party for
David Mathurin	David Mathurin	PO Box 241 Baton Rouge, LA 708210241	2256035786 (CP)	Radiation License Billing Party for
David Mathurin	David Mathurin	PO Box 241 Baton Rouge, LA 708210241	david.r.mathurin@e	Radiation License Billing Party for
David Mathurin	David Mathurin	PO Box 241 Baton Rouge, LA 708210241	2259774950 (WP)	Radiation License Billing Party for
David Mathurin	David Mathurin	PO Box 241 Baton Rouge, LA 708210241	2259774950 (WP)	Radiation Registration Billing Party for
David Mathurin	David Mathurin	PO Box 241 Baton Rouge, LA 708210241	david.r.mathurin@e	Radiation Registration Billing Party for
David Mathurin	David Mathurin	PO Box 241 Baton Rouge, LA 708210241	2256035786 (CP)	Radiation Registration Billing Party for
David Mathurin	David Mathurin	PO Box 241 Baton Rouge, LA 708210241	2259771424 (WF)	Radiation Registration Billing Party for
David Mathurin	David Mathurin	PO Box 241 Baton Rouge, LA 708210241	2259774950 (WP)	Radiation Contact For
David Mathurin	David Mathurin	PO Box 241 Baton Rouge, LA 708210241	david.r.mathurin@e	Radiation Contact For
David Mathurin	David Mathurin	PO Box 241 Baton Rouge, LA 708210241	2256035786 (CP)	Radiation Contact For
David Mathurin	David Mathurin	PO Box 241 Baton Rouge, LA 708210241	2259771424 (WF)	Radiation Contact For
David Mathurin	David Mathurin	PO Box 241 Baton Rouge, LA 708210241	2259774950 (WP)	Radiation Safety Officer for
David Mathurin	David Mathurin	PO Box 241 Baton Rouge, LA 708210241	david.r.mathurin@e	Radiation Safety Officer for
David Mathurin	David Mathurin	PO Box 241 Baton Rouge, LA 708210241	2259771424 (WF)	Radiation Safety Officer for
B. Milton		PO Box 241 Baton Rouge, LA 708210241	2256035786 (CP)	Radiation Safety Officer for Responsible Official for
Related Organizations:	Name	Address	Phone (Type)	Relationship
ExxonMobil Corp		4045 Scenic Hwy Rm 4022 Baton Rouge, LA 70805	2259777652 (WP)	Stage II Vapor Recovery Billing Party for Operates
ExxonMobil Corp		PO Box 241 Baton Rouge, LA 708210241		Owns
ExxonMobil Corp		PO Box 241 Baton Rouge, LA 708210241		Air Billing Party for
ExxonMobil Corp		PO Box 241 Baton Rouge, LA 708210241		Haz. Waste Billing Party for
ExxonMobil Corp		PO Box 241 Baton Rouge, LA 708210241		Solid Waste Billing Party for
ExxonMobil Corp		PO Box 241 Baton Rouge, LA 708210241		UST Billing Party for
ExxonMobil Corp		PO Box 241 Baton Rouge, LA 708210241		Emission Inventory Billing Party
ExxonMobil Corp		c/o Corporation Service Co Baton Rouge, LA 70802		Agent of Service for

325110, Petrochemical Manufacturing

NAIC Codes:

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General Information

AI ID: 286 ExxonMobil Corp - Baton Rouge Chemical Plant
Activity Number: PER20070023
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Air - Title V Regular Permit Renewal

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit.
Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 286 - ExxonMobil Corp - Baton Rouge Chemical Plant
 Activity Number: PER20070023
 Permit Number: 1977-V1
 Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
AWT Combustor Unit						
EQT 0939	C-0BH - GFLA-2/5/6 Cooling Tower		48 gallons/min	40 gallons/min		8760 hr/yr
EOT 0940	M-0TR - Dry Sludge Loading					8760 hr/yr
EOT 0941	M-0IS - Ash Loading					8760 hr/yr
EQT 0942	M-60 - Secondary Wastewater Emissions					8760 hr/yr
EQT 0943	S-82 - AWT Thermal Combustor Stack			35 MM BTU/hr		8760 hr/yr
EOT 0944	V-172 - ELH072A/B Dry Sludge Hoppers & ELRC77 Dry Sludge Receiver Vent		102.8 ft^3/min			8760 hr/yr
EOT 0945	V-173 - ELBN76A Dry Sludge Storage Bin Vent		278.4 ft^3/min			8760 hr/yr
EOT 0946	V-174 - ELBN76B Dry Sludge Storage Bin Vent		278.4 ft^3/min			8760 hr/yr
EOT 0947	V-175 - ELRC78A/B Dry Sludge Receiver Vent		24 ft^3/min			8760 hr/yr
EOT 0948	V-176 - EMRC91 Ash Filler/Receiver Vent		54.6 ft^3/min			8760 hr/yr
EOT 0949	V-177 - EMFD90 Sand Addition Feeder Vent		17.4 ft^3/min			8760 hr/yr
EOT 0950	V-178 - EMBN90 Sand Storage Bin Vent		1.14 ft^3/hr			48 hr/yr
FUG 0061	U-72 - Fugitive Emissions (AWT Thermal Combustor)					8760 hr/yr

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
AWT Combustor Unit							
EOT 0939	C-0BH - GFLA-2/5/6 Cooling Tower	31	9031584	78		57	
EOT 0943	S-82 - AWT Thermal Combustor Stack	25	5600	2.4		100	266
EOT 0944	V-172 - ELH072A/B Dry Sludge Hoppers & ELRC77 Dry Sludge Receiver Vent	20	102.8	33		20	77
EOT 0945	V-173 - ELBN76A Dry Sludge Storage Bin Vent	13.3	278.4	67		60	77
EOT 0946	V-174 - ELBN76B Dry Sludge Storage Bin Vent	13.3	278.4	67		60	77
EOT 0947	V-175 - ELRC78A/B Dry Sludge Receiver Vent	4.5	24	33		30	77
EOT 0948	V-176 - EMRC91 Ash Filler/Receiver Vent	10.5	54.6	33		28	77
EOT 0949	V-177 - EMFD90 Sand Addition Feeder Vent	3.3	17.4	33		8.5	77
EOT 0950	V-178 - EMBN90 Sand Storage Bin Vent	.22	1.14	33		25	77

Relationships:

ID	Description	Relationship	ID	Description
EOT 0954	V-437 - Sludge Drier and Overhead Condenser	Vents to, (normally routed back to process for fuel, only routed to flare during an upset)	EQT 0410	M-04 - M-04 #10 Flare Losses (Flare Gas Recovery)
EOT 0954	V-437 - Sludge Drier and Overhead Condenser	Vents to, (normally routed back to process for fuel, only routed to flare during an upset)	EOT 0413	M-08 - M-08 #26 Flare Losses (Flare Gas Recovery)

INVENTORIES**AI ID: 286 - ExxonMobil Corp - Baton Rouge Chemical Plant**

Activity Number: PER20070023

Permit Number: 1977-V1

Air - Title V Regular Permit Renewal

Relationships:

ID	Description	Relationship	ID	Description
EQT 0954	V-437 - Sludge Drier and Overhead Condenser	Vents to, (normally routed back to process for fuel, only routed to flare during an upset)	EQT 0412	M-07 - M-07 #25 Flare Losses (Flare Gas Recovery)
EQT 0954	V-437 - Sludge Drier and Overhead Condenser	Vents to, (normally routed back to process for fuel, only routed to flare during an upset)	EQT 0411	M-06 - M-06 #16 Flare Losses (Flare Gas Recovery)

Subject Item Groups:

ID	Group Type	Group Description
UNF 0009	Unit or Facility Wide	UNFG9 - AWT Combustor Unit

Group Membership:

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
1520	1520 Incinerators: A) 1,000 Lb/Hr and Greater Capacity		

SIC Codes:

2822	Synthetic rubber	AI 286
2822	Synthetic rubber	UNF 009
2865	Cyclic organic crudes, intermediates, dyes and pigments	AI 286
2869	Industrial organic chemicals, nec	AI 286
4011	Railroads, line-haul operating	AI 286

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 286 - ExxonMobil Corp - Baton Rouge Chemical Plant

Activity Number: PER20070023

Permit Number: 1977-V1

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
AWT Combustor Unit															
EQT 0939 C-08H							0.002	0.10	0.01				0.002		0.01
EQT 0940 M-01R							0.002	0.10	0.01				0.002	0.10	0.01
EQT 0941 M-01S							0.002	0.10	0.01				0.002	0.10	0.01
EQT 0942 M-60													0.44		1.95
EQT 0943 S-82	0.75	5.10	3.30	16.0	16.70	70	2.10	2.50	8.65	9.00	33.0	39.40	0.34	0.36	1.50
EQT 0944 V-172							0.01	0.10	0.03				0.39	1.90	1.70
EQT 0945 V-173							0.01	0.10	0.04				0.20	0.99	0.87
EQT 0946 V-174							0.01	0.10	0.04				0.20	0.99	0.87
EQT 0947 V-175							0.003	0.10	0.01				0.07	0.35	0.31
EQT 0948 V-176							0.01	0.10	0.03				0.02	0.10	0.10
EQT 0949 V-177							0.002	0.10	0.01						
EQT 0950 V-178							0.40	0.50	0.01						
FUG 0061 U-72													0.002		0.01

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 286 - ExxonMobil Corp - Baton Rouge Chemical Plant

Activity Number: PER20070023

Permit Number: 1977-V1

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0942 M-60	Benzene	0.002		0.01
	Biphenyl	0.01		0.05
	Cresol	0.003		0.01
	Cumene	0.002		0.01
	Ethyl benzene	0.002		0.01
	Methyl Tertiary Butyl Ether	0.002		0.01
	Methyl ethyl ketone	0.01		0.04
	Phenol	0.002		0.01
	Styrene	0.002		0.01
	Toluene	0.002		0.01
EQT 0943 S-82	Xylene (mixed isomers)	0.005		0.02
	Chlorinated Dibenzo-P-Dioxins	.0000002	.00000024	.00000089
	Chlorinated dibenzofurans	.0000003	.0000003	.0000013
	Chlorine	0.04	0.10	0.16
	Ethyl benzene	0.002	0.10	0.01
	Hydrochloric acid	1.20	2.40	5.24
	Methyl ethyl ketone	0.002	0.10	0.01
	Naphthalene	0.06	0.32	0.28
	Polynuclear Aromatic Hydrocarbons	0.10	0.52	0.45
	Styrene	0.002	0.10	0.01
EQT 0944 V-172	Sulfuric acid	0.75	2.0	3.0
	Xylene (mixed isomers)	0.002	0.10	0.01
	Carbon disulfide	0.005	0.10	0.02
EQT 0945 V-173	Methyl ethyl ketone	0.07	0.39	0.35
	Styrene	0.02	0.12	0.10
	Methyl ethyl ketone	0.004	0.10	0.02
EQT 0946 V-174	Styrene	0.004	0.10	0.02
	Methyl ethyl ketone	0.004	0.10	0.02
EQT 0947 V-175	Styrene	0.004	0.10	0.02
	Methyl ethyl ketone	0.004		0.02
FUG 0061 U-72	Methyl ethyl ketone	0.002		0.01
UNF 0009 UNF9	Benzene			0.02

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 286 - ExxonMobil Corp - Baton Rouge Chemical Plant

Activity Number: PER20070023

Permit Number: 1977-V1

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0009 UNF9	Biphenyl			0.05
	Carbon disulfide			0.02
	Chlorinated Dibenzo-P-Dioxins			.0000013
	Chlorinated dibenzofurans			.00000089
	Chlorine			0.16
	Cresol			0.01
	Cumene			0.01
	Ethyl benzene			0.02
	Hydrochloric acid			5.24
	Methyl Tertiary Butyl Ether			0.01
	Methyl ethyl ketone			0.47
	Naphthalene			0.28
	Polynuclear Aromatic Hydrocarbons			0.45
	Styrene			0.18
	Sulfuric acid			3.0
	Toluene			0.01
	Xylene (mixed isomers)			0.03

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Corp - Baton Rouge Chemical Plant
 Activity Number: PER20070023
 Permit Number: 1977-V1

Air - Title V Regular Permit Renewal

EQT 0940 M-01R - Dry Sludge Loading

- 1 [LAC 33:III.1311.B] Total suspended particulate \leq 46.29 lb/hr. The rate of emission shall be the total of all emission points from the source.
 Which Months: All Year Statistical Basis: None specified
- 2 [LAC 33:III.1311.C] Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
- 3 [LAC 33:III.5109.A.] Source transfers material that contains organic HAPs/LTAPs only as impurities (as defined in 40 CFR 63.101). No control is determined as MACT.

EQT 0941 M-01S - Ash Loading

- 4 [LAC 33:III.1311.B] Total suspended particulate \leq 46.29 lb/hr. The rate of emission shall be the total of all emission points from the source.
 Which Months: All Year Statistical Basis: None specified
- 5 [LAC 33:III.1311.C] Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average

EQT 0942 M-60 - Secondary Wastewater Emissions

- 6 [LAC 33:III.5109.A.] No control is determined as MACT.

EQT 0943 S-82 - AWT Thermal Combustor Stack

- 7 [40 CFR 60.662(a)] Total Organic Compounds (less methane and ethane) \geq 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
 Which Months: All Year Statistical Basis: None specified
- 8 [40 CFR 60.663(a)(1)(i)] Temperature monitored by temperature monitoring device continuously. Install the device in the firebox. Ensure that the temperature device has an accuracy of +/- 1 percent of the temperature being monitored expressed in degrees Celsius or +/- 0.5 degrees C whichever is greater. Subpart NNN. [40 CFR 60.663(a)(1)(i)]
 Which Months: All Year Statistical Basis: None specified
- 9 [40 CFR 60.663(a)(1)(i)] Temperature recordkeeping by electronic or hard copy continuously. Record the temperature using a continuous recording device. Subpart NNN. [40 CFR 60.663(a)(1)(i)]
- 10 [40 CFR 60.663(a)(2)] Flow monitored by flow indicator hourly. Monitor the vent stream flow to the incinerator. Install the flow indicator in the vent stream from each 60.663(a)(2)]
 Which Months: All Year Statistical Basis: None specified
- 11 [40 CFR 60.663(a)(2)] Flow recordkeeping by electronic or hard copy hourly. Record the vent stream flow to the incinerator at least once every hour for each affected facility. Subpart NNN. [40 CFR 60.663(a)(2)]

SPECIFIC REQUIREMENTS**AI ID: 286 - ExxonMobil Corp - Baton Rouge Chemical Plant****Activity Number: PERR20070023****Permit Number: 1977-V1****Air - Title V Regular Permit Renewal****EQT 0943 S-82 - AWT Thermal Combustor Stack**

- 12 [40 CFR 60.664(a)] Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN, [40 CFR 60.664(a)]
- 13 [40 CFR 60.664(b)] Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.60.8(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN, [40 CFR 60.664(b)]
- 14 [40 CFR 60.665(b)] Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart NNN, [40 CFR 60.665(b)]
- 15 [40 CFR 61.52(b)] Mercury <= 7.1 lb (3.2 kg). Subpart E, [40 CFR 61.52(b)]
- Which Months: All Year Statistical Basis: 24-hour average
- Test emissions in accordance with the procedures set forth either in 40 CFR 61.53(d) or as in 40 CFR 61.54. Subpart E, [40 CFR 61.53(d)(1)]
- Use Method 101A in Appendix B to 40 CFR 61 to test emissions as follows: Perform the test within 90 days of the effective date of these regulations in the case of an existing source or a new source which has an initial start-up date preceding the effective date, or within 90 days of the startup in the case of a new source which did not have an initial startup date preceding the effective date. Subpart E, [40 CFR 61.53(d)(2)]
- Submit notification: Due to DEQ at least 30 days prior to an emission test. Subpart E, [40 CFR 61.53(d)(3)]
- Take samples over such a period or periods as are necessary to accurately determine the maximum emissions which will occur in a 24-hour period. Make no changes in the operation which would potentially increase emissions above the determined by the most recent source test, until the new emission level has been estimated by calculation and the results reported to DEQ. Subpart E, [40 CFR 61.53(d)(4)]
- Analyze all samples and determine mercury emissions within 30 days after the stack test. Report each determination to DEQ by a registered letter dispatched within 15 calendar days following the date such determination is completed. Subpart E, [40 CFR 61.53(d)(5)]
- Mercury recordkeeping by electronic or hard copy upon occurrence of event of performance testing. Retain records of emission test results and other data needed to determine total emissions at the source and make available, for inspection by DEQ, for a minimum of 2 years. Subpart E, [40 CFR 61.53(d)(6)]
- Use Method 105 of Appendix B to 40 CFR 61 and the procedures specified in 40 CFR 61.54 to test emissions. Conduct sludge test within 90 days of the effective date of these regulations in the case of an existing source or a new source which has an initial start-up date preceding the effective date, or conduct a sludge test within 90 days of the startup in the case of a new source which did not have an initial startup date preceding the effective date. Subpart E, [40 CFR 61.54(a)]
- Submit notification: Due to DEQ at least 30 days prior to sludge sampling test. Subpart E, [40 CFR 61.54(b)]
- Sample sludge according to 40 CFR 61.54(c)(1), determine sludge charging rate for the plant according to 40 CFR 61(c)(2), and perform sludge analysis according to 40 CFR 61.54(c)(3). Subpart E, [40 CFR 61.54(c)]
- Determine mercury emissions by the use of the equation listed in 40 CFR 61.54(d). Subpart E, [40 CFR 61.54(d)]
- Make no changes in the operation of a plant after sludge test has been conducted which would potentially increase emissions above that determined by the most recent sludge test, until the new emission level has been estimated by calculation and the results reported to DEQ. Subpart E, [40 CFR 61.54(e)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Corp - Baton Rouge Chemical Plant

Activity Number: PER20070023

Permit Number: 1977-V1

Air - Title V Regular Permit Renewal

EQT 0943 S-82 - AWT Thermal Combustor Stack

- 27 [40 CFR 61.54(f)] Analyze all sludge samples for mercury content within 30 days after the sludge sample is collected. Report each determination to DEQ by a registered letter dispatched within 15 calendar days following the date such determination is completed. Subpart E, [40 CFR 61.54(f)]
- 28 [40 CFR 61.54(g)] Mercury recordkeeping by electronic or hard copy upon occurrence of event of performance testing. Retain records of sludge sampling, charging rate determination and other data needed to determine mercury content of wastewater treatment plant sludges at the source and make available, for inspection by DEQ, for a minimum of 2 years. Subpart E, [40 CFR 61.54(g)]
- 29 [40 CFR 61.55(a)] Mercury monitored by the regulation's specified method(s) annually, if mercury emissions exceed 3.5 lb (1.6 kg) per 24-hour period, determined either by stack sampling according to 40 CFR 61.53 or sludge sampling according to 40 CFR 61.54. Use either Method 105 of Appendix B or the procedures specified in 40 CFR 61.53(d)(2) and (4). Subpart E, [40 CFR 61.55(a)]
- 30 [40 CFR 61.55(a)] Which Months: All Year Statistical Basis: None specified Mercury recordkeeping by electronic or hard copy annually. Report and retain the results of monitoring according to 40 CFR 61.53(d)(5) and (6) or 61.54(f) and (g). Subpart E, [40 CFR 61.55(a)]
- 31 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 32 [LAC 33:III.1305] Which Months: All Year Statistical Basis: None specified Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- 33 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- 34 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visible emission checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- 35 [LAC 33:III.501.C.6] Do not cause or permit the handling, use, transport, or storage of any material in a manner which allows or may allow controllable particulate matter, fly ash, etc., to become airborne in amounts that will cause a public nuisance or cause ambient air quality standards to be violated.
- 36 [LAC 33:III.501.C.6] Baghouses (including gaskets): Equipment/operational data monitored by technically sound method semiannually or whenever visible emission checks indicate maintenance may be necessary. Change elements as necessary.
- 37 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified Sulfur dioxide <= 39.40 tons/yr.
- 38 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Twelve-consecutive-month maximum If needed, Permittee shall submit a permit modification request after the compliance tests on the AWT Thermal Combustor Unit to correct any permit deficiencies arising from actual compliance test information.
- 39 [LAC 33:III.501.C.6] Ensure the incinerator (AWT Thermal Combustor) has a legible manufacturer's nameplate that shows model number, maximum design feed rate, type of waste, etc. installed on it.
- 40 [LAC 33:III.501.C.6] Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- 41 [LAC 33:III.501.C.6] Baghouses (including gaskets): Equipment/operational data monitored by technically sound method upon each occurrence of process unit shut down or whenever visible emission checks indicate maintenance may be necessary. Change elements as necessary.
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS**AI ID: 286 - ExxonMobil Corp - Baton Rouge Chemical Plant****Activity Number: PER20070023****Permit Number: 1977-V1****Air - Title V Regular Permit Renewal****EQT 0943 S-82 - AWT Thermal Combustor Stack**

- 42 [LAC 33:III.501.C.6] Filter vents: Visible emissions monitored by visual inspection/determination daily. If visible emissions are observed, restore operation of the filter to its normal or usual manner of operation as expeditiously as practicable, but at a minimum within three working days, in accordance with good air pollution control practices for minimizing emissions.
- 43 [LAC 33:III.507.H.1] Which Months: All Year Statistical Basis: None specified
- 44 [LAC 33:III.507.H.1] Combustor Heat Release = 35 MMBTU/hr. Maximum.
- 45 [LAC 33:III.507.H.1] Combustor Pressure recordkeeping by electronic or hard copy continuously.
- 46 [LAC 33:III.507.H.1] Combustor Flue Gas: Sulfur dioxide monitored by CMS continuously. Measure the SO₂ concentration in the exit flue gas.
- 47 [LAC 33:III.507.H.1] Which Months: All Year Statistical Basis: None specified
- 48 [LAC 33:III.507.H.1] Permittee shall confirm that the AWT Thermal Combustor Unit has a minimum retention time of >1 second at Temperature >= 1599 F during maximum operating conditions.
- 49 [LAC 33:III.507.H.1] Which Months: All Year Statistical Basis: None specified
- 50 [LAC 33:III.507.H.1] Maximum hourly HCl and Nitrogen emissions are negligible.
- 51 [LAC 33:III.507.H.1] Dry Sludge Feed rate <= 1150 lb/hr Maximum.
- 52 [LAC 33:III.507.H.1] Which Months: All Year Statistical Basis: Daily average
- 53 [LAC 33:III.507.H.1] Combustor Outlet Temperature recordkeeping by electronic or hard copy continuously.
- 54 [LAC 33:III.507.H.1] Fluid Bed Temperature monitored by temperature monitoring device continuously.
- 55 [LAC 33:III.507.H.1] Which Months: All Year Statistical Basis: None specified
- 56 [LAC 33:III.507.H.1] Combustor Pressure monitored by pressure instrument continuously.
- 57 [LAC 33:III.507.H.1] Which Months: All Year Statistical Basis: None specified
- 58 [LAC 33:III.507.H.1] Which Months: All Year Statistical Basis: None specified
- 59 [LAC 33:III.507.H.1] Which Months: All Year Statistical Basis: None specified
- 60 [LAC 33:III.507.H.1] Combustor Flue Gas: Carbon monoxide monitored by CMS continuously. Measure the carbon monoxide concentration in the exit flue gas.
- 61 [LAC 33:III.507.H.1] Combustor Flue Gas: Carbon monoxide recordkeeping by CMS continuously. Record the carbon monoxide concentration in the exit flue gas.
- 62 [LAC 33:III.507.H.1] Combustor Flue Gas: Total hydrocarbon <= 10 ppm or 0.50% HC feed, whichever is lesser.
- Which Months: All Year Statistical Basis: Maximum

SPECIFIC REQUIREMENTS**AI ID: 286 - ExxonMobil Corp - Baton Rouge Chemical Plant****Activity Number: PER20070023****Permit Number: 1977-V1****Air - Title V Regular Permit Renewal****EQT_0943 S-82 - AWT Thermal Combustor Stack**

63 [LAC 33:III.507.H.1]

Wet Sludge Feed rate <= 3000 lb/hr.

64 [LAC 33:III.507.H.1]

Permittee shall install and maintain the bag filters venting the AWT Thermal Combustor Stack, Emission Point 82, so that particulate removal efficiencies of 99% are maintained. Filter vents shall be visually expected for emissions on a daily basis. The filter elements (bags) shall be inspected every six months and changed as necessary. Records of visual checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance.

65 [LAC 33:III.507.H.1]

Particulate matter (10 microns or less) <= 0.04 gr/dscf @ 7% O2.

Which Months All Year Statistical Basis: Maximum

*Flue Gas Temperature: Fluid bed Temperature >= 1599 F (excluding startup and shutdown).

Which Months All Year Statistical Basis: Minimum

Bag Collector Inlet Temperature recordkeeping by electronic or hard copy continuously.

Bag Collector Inlet Temperature monitored by temperature monitoring device continuously.

Which Months All Year Statistical Basis: None specified

*Combustor Flue Gas: Opacity <= 20 percent. Maximum.

Which Months All Year Statistical Basis: Maximum

Combustor Fuel Flow monitored by flow indicator continuously.

Which Months All Year Statistical Basis: None specified

The waste feed to the AWT Thermal Combustor Unit shall be automatically shut off if any excursion occurs for any 15 minute averaging period of a specified operating limit marked with an "*", except that a one-hour rolling average applies for CO emissions. During startup and shutdown, only the maximum hourly emission rates specified for the sources in the permit will apply.

*Flue Gas Temperature: Bag Collector Inlet Temperature >= 450 F. Maximum.

Which Months All Year Statistical Basis: Maximum

Fluid Bed Temperature recordkeeping by electronic or hard copy continuously.

Operating time recordkeeping by electronic or hard copy daily. Keep a daily record of number of hours of operations on site and available for review by the Office of Environmental Compliance, Surveillance Division. Also record all upset conditions with time and duration of upset noted. (State Only).

*Combustor Flue Gas: Oxygen >= 2 % by volume (dry).

Which Months All Year Statistical Basis: Minimum

Combustor Flue Gas: Oxygen monitored by CMS continuously. Measure the oxygen concentration in the exit flue gas.

Which Months All Year Statistical Basis: None specified

Combustor Retention time >= 1 sec at 1599F.

Which Months All Year Phases: Statistical Basis:

Combustor 15-minute average pressure above fluid bed >= -0.05 inches of Water. Maximum.

Neo Acids Feed rate <= 328 lb/hr. Maximum.

Which Months All Year Statistical Basis: Hourly maximum

*Combustor Flue Gas: Temperature >= 1500 F.

Which Months All Year Statistical Basis: Minimum

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81 [LAC 33:III.507.H.1]

Combustor Outlet Temperature monitored by temperature monitoring device continuously.

82 [LAC 33:III.507.H.1]

Which Months: All Year Statistical Basis: None specified
 Permittee shall take corrective action as necessary to return operations to the specified operation parameter limits whenever excursions outside of any of the maximum or minimum values specified for the AWT Thermal Combustor Unit occurs. A record of waste feed shut offs shall be maintained and on site and made available for inspection by the Office of Environmental Compliance, Surveillance Division.
 The combustor shall be shut down immediately under the following conditions:

83 [LAC 33:III.507.H.1]

- Loss of system draft;
- Loss of instrument air
- Loss of induced draft blower
- Loss of boiler water
- Power Failure.

84 [LAC 33:III.507.H.1]

Sludge Feed rate monitored by continuous recorder once each shift. (Daily volumetric transfer in the transport system).

Which Months: All Year Statistical Basis: Daily average
 Within 180 days of placing the AWT Combustor back into service. Conduct emission tests to verify compliance with the standards for all criteria pollutants, including a DRE of 99.5% for hydrocarbon, at the specified operating condition, using the test methods from 40 CFR 60, Appendix A:

- a. PM by Method 5 - Determination of Particulate Emissions from Stationary Sources;
- b. NOx by Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources (Instrument Analyzer Procedure);
- c. SO₂ by Method 6C - Determination of Sulfur Dioxide Emissions from Stationary Sources (Instrument Analyzer Procedure);
- d. CO by Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources;
- e. Total Hydrocarbons (THC) by Method 18 - Measurement of Gaseous Organic Compound Emissions by Gas Chromatography; and
- f. Opacity by Method 9 - Visible Determination of the Opacity of Emissions from Stationary Sources

Permittee shall obtain approval of the compliance test from the Office of Environmental Assessment, Environmental Technology Division prior to initiation.

Test methods other than those listed may be used if prior approval is obtained from the office of Environmental Assessment, Environmental Technology Division.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be maintaining the combustor to achieve a DRE of 99.5 % for hydrocarbons.

EQT 0944 V-172 - ELH072A/B Dry Sludge Hoppers & ELRC77 Dry Sludge Receiver Vent

87 [LAC 33:III.1305]

Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

Total suspended particulate <= 46.29 lb/hr. The rate of emission shall be the total of all emission points from the source.
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS**AI ID: 286 - ExxonMobil Corp - Baton Rouge Chemical Plant****Activity Number: PER20070023****Permit Number: 1977-V1****Air - Title V Regular Permit Renewal****EQT 0944 V-172 - ELH072A/B Dry Sludge Hoppers & ELRC77 Dry Sludge Receiver Vent**

89 [LAC 33:III.1311.C]

Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

90 [LAC 33:III.501.C.6]

Permittee shall install and maintain the vent cartridge filters and bag filters, so that particulate removal efficiencies of 95% are maintained. Filter vents shall be visually expected for emissions on a daily basis. The filter elements (cartridge) shall be inspected every six months and changed as necessary. Records of visual checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance.

91 [LAC 33:III.5109.A.1]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be no control, based upon low flowrates and low concentrations of TAPs.

EQT 0945 V-173 - ELBN76A Dry Sludge Storage Bin Vent

92 [LAC 33:III.1305]

Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

Total suspended particulate \leq 46.29 lb/hr. The rate of emission shall be the total of all emission points from the source.

Which Months: All Year Statistical Basis: None specified

Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

Permittee shall install and maintain the vent cartridge filters and bag filters, so that particulate removal efficiencies of 95% are maintained. Filter vents shall be visually expected for emissions on a daily basis. The filter elements (cartridge) shall be inspected every six months and changed as necessary. Records of visual checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be no control, based upon low flowrates and low concentrations of TAPs.

EQT 0946 V-174 - ELBN76B Dry Sludge Storage Bin Vent

97 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

Total suspended particulate \leq 46.29 lb/hr. The rate of emission shall be the total of all emission points from the source.

Which Months: All Year Statistical Basis: None specified

Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Corp - Baton Rouge Chemical Plant
 Activity Number: PER20070023
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Air - Title V Regular Permit Renewal

EQT 0946 V-174 - ELBN76B Dry Sludge Storage Bin Vent

- 100 [LAC 33:III.501.C.6] Permittee shall install and maintain the vent cartridge filters and bag filters, so that particulate removal efficiencies of 95% are maintained. Filter vents shall be visually expected for emissions on a daily basis. The filter elements (cartridge) shall be inspected every six months and changed as necessary. Records of visual checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance.
- 101 [LAC 33:III.5109.A.1] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be no control, based upon low flowrates and low concentrations of TAPs.

EQT 0947 V-175 - ELRC78A/B Dry Sludge Receiver Vent

- 102 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- 103 [LAC 33:III.1311.B] Total suspended particulate \leq 46.29 lb/hr. The rate of emission shall be the total of all emission points from the source.
- 104 [LAC 33:III.1311.C] Which Months: All Year Statistical Basis: None specified
 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 105 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Six-minute average
 Permittee shall install and maintain the vent cartridge filters and bag filters, so that particulate removal efficiencies of 95% are maintained. Filter vents shall be visually expected for emissions on a daily basis. The filter elements (cartridge) shall be inspected every six months and changed as necessary. Records of visual checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance.
- 106 [LAC 33:III.5109.A.1] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be no control, based upon low flowrates and low concentrations of TAPs.

EQT 0948 V-176 - EMRC91 Ash Filter/Receiver Vent

- 107 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- 108 [LAC 33:III.1311.B] Total suspended particulate \leq 46.29 lb/hr. The rate of emission shall be the total of all emission points from the source.
- 109 [LAC 33:III.1311.C] Which Months: All Year Statistical Basis: None specified
 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 110 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Six-minute average
 Permittee shall install and maintain the vent cartridge filters and bag filters, so that particulate removal efficiencies of 95% are maintained. Filter vents shall be visually expected for emissions on a daily basis. The filter elements (cartridge) shall be inspected every six months and changed as necessary. Records of visual checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance.

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AI ID: 286 - ExxonMobil Corp - Baton Rouge Chemical Plant

Activity Number: PER20070023

Permit Number: 1977-V1

Air - Title V Regular Permit Renewal

EQT 0949 V-177 - EMFD90 Sand Addition Feeder Vent

111 [LAC 33.III.1305]

Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33.III.1305.A.1-7.

112 [LAC 33.III.1311.B]

Total suspended particulate \leq 46.29 lb/hr. The rate of emission shall be the total of all emission points from the source.

113 [LAC 33.III.1311.C]

Which Months: All Year Statistical Basis: None specified
Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

114 [LAC 33.III.501.C.6]

Which Months: All Year Statistical Basis: Six-minute average
Permittee shall install and maintain the vent cartridge filters and bag filters, so that particulate removal efficiencies of 95% are maintained. Filter vents shall be visually expected for emissions on a daily basis. The filter elements (cartridge) shall be inspected every six months and changed as necessary. Records of visual checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance.

EQT 0950 V-178 - EMBN90 Sand Storage Bin Vent

115 [LAC 33.III.1305]

Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33.III.1305.A.1-7.

116 [LAC 33.III.1311.B]

Total suspended particulate \leq 46.29 lb/hr. The rate of emission shall be the total of all emission points from the source.
Which Months: All Year Statistical Basis: None specified

117 [LAC 33.III.1311.C]

Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

118 [LAC 33.III.501.C.6]

Which Months: All Year Statistical Basis: Six-minute average
Permittee shall install and maintain the vent cartridge filters and bag filters, so that particulate removal efficiencies of 95% are maintained. Filter vents shall be visually expected for emissions on a daily basis. The filter elements (cartridge) shall be inspected every six months and changed as necessary. Records of visual checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance.

119 [LAC 33.III.507.H.1]

Operating time recordkeeping by electronic or hard copy monthly, as well as the total hours operated in the last twelve consecutive months.

120 [LAC 33.III.507.H.1]

Operating time \leq 48 hr (unloading) of the sand storage vent in any consecutive 12 month period.
Which Months: All Year Statistical Basis: None specified

FUG 0061 U-72 - Fugitive Emissions (AWT Thermal Combustor)

121 [LAC 33.III.2111]

Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.

SPECIFIC REQUIREMENTS**AI ID: 286 - ExxonMobil Corp - Baton Rouge Chemical Plant****Activity Number: PER20070023****Permit Number: 1977-V1****Air - Title V Regular Permit Renewal****FUG 0061 U-72 - Fugitive Emissions (AWT Thermal Combustor)**

122 [LAC 33:III.501.C.6]

The number of each type of component required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the Department by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided:

- a. changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increases except from the fugitive emissions components themselves;
- b. the changes do not involve any associated increase in production rate or capacity, or tie in of new or modified process equipment other than the piping components;
- c. actual emissions following the changes will not exceed the emission limits contained in this permit; and
- d. the components are promptly incorporated into any applicable leak detection and repair program.

123 [LAC 33:III.507.H.1]

Permittee shall visually inspect the AWT Combustor system every shift for leaks and other fugitive emissions. Problems shall be addressed immediately to eliminate any fugitive emissions. Records shall be maintained on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

124 [LAC 33:III.5109.A.1]

No control is determined as MACT as the equipment does not meet the definition of "in organic HAP service" or "in VOC service" (equipment contains process fluid that contains <5% TAP by weight and <1% VOC by weight).

UNF 0009 UNF9 - AWT Combustor Unit

125 [40 CFR 60.]

126 [40 CFR 61.145(b)(1)]

127 [40 CFR 61.148]

128 [40 CFR 61.342(c)(1)(i)]

129 [40 CFR 61.345(a)(1)(i)]

All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)] Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.

Waste streams containing benzene: Remove or destroy the benzene contained in the waste using a treatment process or wastewater treatment system that complies with the standards specified in 40 CFR 61.348. Subpart FF. [40 CFR 61.342(c)(1)(i)] Cover: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.345(a)(1)(i)] Cover: Maintain each opening in a closed, sealed position at all times that waste is in the container except when it is necessary to use the opening for waste loading, removal, inspection, or sampling, except as specified in 40 CFR 61.345(a)(4). Subpart FF. [40 CFR 61.345(a)(1)(ii)] Install, operate, and maintain a cover on each container used to handle, transfer, or store waste. Subpart FF. [40 CFR 61.345(a)(1)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Corp - Baton Rouge Chemical Plant

Activity Number: PERR20070023

Permit Number: 1977-V1

Air - Title V Regular Permit Renewal

UNF 0009 UNF9 - AWT Combustor Unit

132 [40 CFR 61.345(a)(2)]

When waste is transferred into a container by pumping, perform the transfer using a submerged fill pipe. Ensure that the submerged fill pipe outlet extends to within two fill pipe diameters of the bottom of the container while the container is being loaded. Ensure that the cover remains in place during loading of the waste and maintain all openings in a closed, sealed position except for those openings required for the submerged fill pipe, those openings required for venting of the container to prevent physical damage or permanent deformation of the container or cover, any opening complying with 40 CFR 61.345(a)(4). Subpart FF. [40 CFR 61.345(a)(2)]

Perform treatment of a waste in a container in a manner such that while the waste is being treated the container meets the standards specified in 40 CFR 61.345(a)(3)(i) through (a)(3)(iii), except as specified in 40 CFR 61.345(a)(4). Subpart FF. [40 CFR 61.345(a)(3)]

133 [40 CFR 61.345(a)(3)]

All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.

Equipment/operational data monitored by visual inspection/determination once initially and annually. Inspect container according to the requirements in 40 CFR 63.926(a). Subpart GGGGG. [40 CFR 63.7902(a)]

Which Months: All Year Statistical Basis: None specified

Demonstrate continuous compliance with the applicable emissions limitations and work practice standards in 40 CFR 63.7990 by meeting the requirements in 40 CFR 63.7903(b) through (e), as applicable. Subpart GGGGG. [40 CFR 63.7903(a)]

Conduct a performance test or design evaluation to demonstrate initial compliance with the emission limits in 40 CFR 63 Subpart GGGGG using the methods and procedures specified in 40 CFR 63.7941(l) through (m), as applicable. Subpart GGGGG.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.7952(a) through (d), as applicable. Subpart GGGGG.

All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A.

Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.

Outdoor burning of waste material or other combustible material is prohibited.

Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.

Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds

emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2.113.A.1-5.

Submit plan: Due within 12 months after promulgation of LAC 33:III.2.113.A.1-5. Submit plans to DEQ for reducing VOC emissions from solvent usage. Alternatively, report the controls and/or work practices deemed to be MACT that have been adopted to reduce VOC emissions from solvent cleanup operation. MACT plan for Minimization of Cleanup Solvent Emissions updated June 2004.

Submit notification: Due annually. Report the net VOC emissions from solvent usage. Also report solvent reduction progress, based on product output or other suitable basis approved by DEQ, or alternately, report the controls and/or work practices deemed to be MACT that have been adopted to reduce VOC emissions from solvent cleanup operations.

Comply with the requirements of LAC 33:III.2151 as soon as practicable, but in no event later than one year from promulgation of the regulation revision, if the facility has become subject to LAC 33:III.2151 as a result of a revision of the regulation.

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147 [LAC 33:III.219]

Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.

148 [LAC 33:III.2901.D]

Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.

149 [LAC 33:III.2901.F]

If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.

150 [LAC 33:III.501.C.6]

Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-butadiene, butenes (all isomers), ethylene and propylene. (State Only).

Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only).

152 [LAC 33:III.507.H.1]

The permittee shall test the automatic shutdown systems on the AWT Thermal Combustor Unit annually.

153 [LAC 33:III.507.H.1]

The permittee shall not combust any waste in the AWT Thermal Combustor Unit containing chlorinated organics other than trace amounts of methyl chloride, 1,1,1 - trichloroethane, and halogenated polymers.

154 [LAC 33:III.507.H.1]

155 [LAC 33:III.507.H.1]

The permittee shall analyze any new waste streams prior to combustion in the AWT Thermal Combustor Unit. Permittee shall analyze all feed sources to the AWT Thermal Combustor Unit monthly for nitrogen, HCl, and toxics to determine the quantity and variability of the aforementioned materials. A daily ash sample from the combustor boiler/bag filter shall be composited monthly and tested for toxic metal concentration. ExxonMobil shall quantify and speciate toxic emissions from the combustor system based upon ash concentration, estimated particulate emissions, feed concentration, and destruction and removal efficiency. Testing shall begin upon restart of the AWT Thermal Combustor Unit. Records of test results shall be maintained on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. A detailed report covering the quarterly results shall be submitted within thirty days after the end of each test period. This testing schedule may be modified to yearly if it is shown that variability is less than plus or minus 5% after completion of three months testing.

Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.

Do not cause a violation of any ambient air standard listed in LAC 33:II.Table 51.2, unless operating in accordance with LAC 33:III.5109.B. Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.

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- 159 [LAC 33:III.5105.A.4]
160 [LAC 33:III.5107.A.2]
- Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
- 161 [LAC 33:III.5107.A.]
Submit Annual Emissions Report: Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 162 [LAC 33:III.5107.B.1]
Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 163 [LAC 33:III.5107.B.2]
Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923.
- 164 [LAC 33:III.5107.B.3]
Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931. Submit notification in the manner provided in LAC 33:III.3923.
- 165 [LAC 33:III.5107.B.4]
Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii.
- Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- 166 [LAC 33:III.5107.B.5]
Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.
- 167 [LAC 33:III.5113.A.1]
Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.
- An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.
- 168 [LAC 33:III.5113.A.2]
Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537.
- 169 [LAC 33:III.5151.F.1.f]
[LAC 33:III.535, LAC 33:III.537]
- 170 [LAC 33:III.535]

SPECIFIC REQUIREMENTS

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Activity Number: PER20070023

Permit Number: 1977-V1

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- 171 [LAC 33:III.5609.A.1.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.
- 172 [LAC 33:III.5609.A.2.b] Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.
- 173 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.
- 174 [LAC 33:III.5609.A] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
- 175 [LAC 33:III.5901.A] Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.
- 176 [LAC 33:III.5907] Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- 177 [LAC 33:III.5911.A] Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- 178 [LAC 33:III.5911.C] Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III Chapter 59, whichever is later.
- 179 [LAC 33:III.919.D] Include the information listed in LAC 33:III.5911.B, and submit to the Office of Environmental Compliance.
- Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.
- Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.